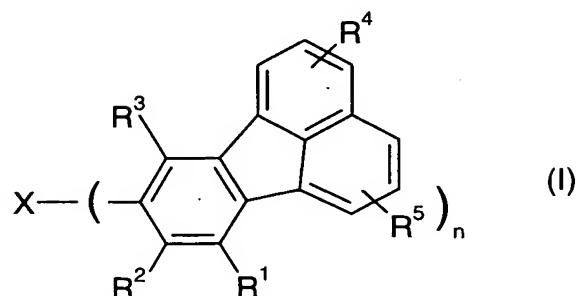


# Abstract

Fluoranthene derivatives of the general formula I

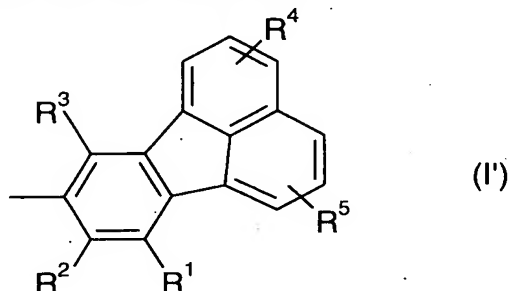


where the symbols have the following meanings:

$R^1, R^2, R^3, R^4, R^5$  are each hydrogen, alkyl, an aromatic radical, a fused aromatic ring system, a heteroaromatic radical or  $-\text{CH}=\text{CH}_2$ , (E)- or (Z)- $\text{CH}=\text{CH}-\text{C}_6\text{H}_5$ , acryloyl, methacryloyl, methylstyryl,  $-\text{O}-\text{CH}=\text{CH}_2$  or glycidyl;

where at least one of the radicals  $R^1, R^2$  and/or  $R^3$  is not hydrogen;

X is an alkyl radical, an aromatic radical, a fused aromatic ring system, a heteroaromatic radical or a radical of the formula (I')



or an oligophenyl group;

n is from 1 to 10 or, in the case of X = oligophenyl group, 1-20;

with the proviso that  $R^1, R^2, R^3$  and X are not at the same time phenyl when  $R^4$  and  $R^5$  are hydrogen. Furthermore, the invention relates to a process for preparing them and the use of fluoranthene derivatives as emitter molecule in organic light-emitting diodes (OLEDs), a light-emitting layer comprising the fluoranthene derivatives of the invention as emitter molecules, an OLED comprising the light-emitting layer of the invention and devices comprising the OLED of the invention.